

C 2 179 83.6 329 50 A682287 WC51C01.x  
 C 3 168 78.5 380 36 A631916 NP78B10.s  
 C 4 160 74.8 375 35 A578209 NP56F11.s  
 C 5 160 74.8 642 48 A552474 PT2.1.7-G  
 C 6 142 66.4 322 36 A660586 NP30H03.s  
 C 7 129 60.3 294 46 A479313 A117931 LG55E07.x  
 C 8 125 59.3 760 48 A557019 PT2.1.10-  
 C 9 125 58.4 378 39 A607697 A157019 PT2.1.10-  
 C 10 76 35.5 370 63 A592246 A676897 NY47G12.s  
 C 11 53 24.8 545 103 A503931 A197206 WR42D04.x  
 C 12 20 9.3 276 59 A682866 AV080931 RPEC11-1-3  
 C 13 19 8.9 421 41 A656551 AV082866 AV082866  
 C 14 18 8.4 272 42 A105651 A105651 OY96D10.x  
 C 15 18 8.4 326 28 A1147724 A1147724 QB43D09.x  
 C 16 18 8.4 522 39 A6835226 A6835226 AK65B06.s  
 C 17 18 8.4 546 47 A1467857 A16375226 A16375226  
 C 18 17 7.9 166 102 A0346924 A16375226 A16375226  
 C 19 17 7.9 268 74 A0208037 A0208037 M111068  
 C 20 17 7.9 292 43 A1243504 A1243504 QH82A09.x  
 C 21 17 7.9 299 24 H83957 YS64H05.s1  
 C 22 17 7.9 349 74 AV397277 AV397277 AV397277  
 C 23 17 7.9 386 25 D80092 D80092 H0M027D068  
 C 24 17 7.9 391 100 A0312074 A0312074 RPEC11-93  
 C 25 17 7.9 402 87 A0767933 A0767933 HS\_3089\_A  
 C 26 17 7.9 408 105 A0620046 A0620046 HS\_5186\_A  
 C 27 17 7.9 427 88 A0877464 A0877464 HS\_2146\_A  
 C 28 17 7.9 441 91 A0145997 A0145997 HS\_2226\_A  
 C 29 17 7.9 443 25 N70966 N70966 Z43C02.S1  
 C 30 17 7.9 462 87 A0815740 A0815740 HS\_5283\_B  
 C 31 17 7.9 468 104 A0555758 A0555758 HS\_5230\_B  
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 C 34 17 7.9 490 43 A1162663 A1162663 A1162663  
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 C 36 17 7.9 516 22 H11831 H11831 YML1H07.T1  
 C 37 17 7.9 526 100 A0283408 A0283408 RPEC11-90  
 C 38 17 7.9 527 99 A0234569 A0234569 HS\_2054\_A  
 C 39 17 7.9 531 87 A0805277 A0805277 HS\_3214\_A  
 C 40 17 7.9 541 100 A0313844 A0313844 RPEC11-94  
 C 41 17 7.9 544 48 A0563558 A0563558 HS\_5343\_A  
 C 42 17 7.9 544 48 A1632528 A1632528 WB10B03.x  
 C 43 17 7.9 546 103 A0479186 A0479186 RPEC11-11-2  
 C 44 17 7.9 554 64 A0022746 A0022746 df43a12.Y  
 C 45 17 7.9 566 81 B67277 B67277 T22N3TR TAM

## ALIGNMENTS

RESULT 1  
 LOCUS A1792251 369 bp mRNA  
 DEFINITION: np78b10.y5 NCL/CGAP\_Pr2 Homo sapiens cDNA clone IMAGE:1132411  
 similar to contains Alu repetitive element; contains element MER4  
 repetitive element ; mRNA sequence.

ACCESSION A1792251 GI:5339967  
 VERSION A1792251.1  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 1 (bases 1 to 369)  
 NCI/NCID-CCGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
 National Cancer Institute / National Institute of Dental Research,  
 Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
 Unpublished (1997)  
 On Jun 5, 1998 this sequence version replaced gi:3187227.  
 Other ESTs: np78b10.x5  
 Contact: Robert Strausberg, Ph.D.  
 Tel: (301) 496-1550  
 Email: Robert.Strausberg@nih.gov  
 Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuagui,

M.D., Michael Emmert-Buck, M.D., Ph.D.  
 cDNA Library Preparation: David B. Kitzman, Ph.D.  
 cDNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CCGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/BLN at:  
[www.bio.lnu.gov/bbrp/image/image.html](http://www.bio.lnu.gov/bbrp/image/image.html)

This read is a RESEQUENCE of a previously sequenced human clone  
 Original clone citation: see original entry for original citation  
 Information  
 This 5' resequenced clone has no previous 5' data to verify this  
 new read against  
 Putative full length read  
 The vector to vector length is 370  
 Seq primer: -40RP from Gibco.  
 Location/Qualifiers

FEATURES  
 source  
 1. 369  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1132411"  
 /clone\_lib="NCI-CCGAP\_Pr2"  
 /sex="Male"  
 /dev\_stage="45 years old"  
 /lab\_host="DH10B"  
 /note="vector: PAM10; Site 1: NotI; Site 2: EcoRI; 1st  
 strand cDNA was primed with oligo(dT)17 on 50 ng of  
 DNase-treated, total cellular RNA obtained from  
 5,000-10,000 microdissected preneoplastic cells  
 histologically-determined to be prostatic intraepithelial  
 neoplasia 2 (PIN2) cells. Double-stranded cDNA was  
 ligated to EcoRI adaptors, 5 cycles of PCR applied to the  
 cDNA with an adaptor specific primer, and the resulting  
 PCR product subcloned into pAMP10 by the UDG-cloning  
 method (Life Technologies). Average insert size is 600  
 bp. NOTE: Not directionally cloned. This library was  
 constructed by David Kitzman."

BASE COUNT  
 ORIGIN  
 101 a 88 c 93 g 87 t

Query Match 99.1%; Score 212; DB 60; Length 369;  
 Best Local Similarity 100.0%; Pred. No. 7e-107;  
 Matches 212; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 AAGGCGTGAACAGAGCGCCACTGTGAGGCTGAACCTTTAGCCCATGCTGCTTGA 62  
 DB 7 AAGGCGTGAACAGAGCGCCACTGTGAGGCTGAACCTTTAGCCCATGCTGCTTGA 66  
 QY 63 AGGTGAGGCAAGCTGATTTGTCCTCCACCTTTGCAGAGAGAGAGGATGTGGCC 122  
 DB 67 AGGTGAGGCAAGCTGATTTGTCCTCCACCTTTGCAGAGAGAGAGGATGTGGCC 126  
 QY 123 CCATTTCATGATCAAGAGCGGCCCATCTTACTACCTCCAGAGAGTCTTCTCTAA 182  
 DB 127 CCATTTCATGATCAAGAGCGGCCCATCTTACTACCTCCAGAGAGTCTTCTCTAA 186  
 QY 183 TAGAATAACATCTTGAACATCTACTGG 214  
 DB 187 TAGAATAACATCTTGAACATCTACTGG 218

RESULT 2  
 LOCUS A1682287/c 329 bp mRNA  
 DEFINITION: WC51C01.x1 NCL/CGAP\_Pr28 Homo sapiens cDNA clone IMAGE:2322144 3'  
 similar to contains Alu repetitive element; contains element MER4  
 repetitive element ; mRNA sequence.  
 ACCESSION A1682287  
 VERSION A1682287.1 GI:4892469  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

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c 2 316 93.2 642 48 A1557474 PT2.1-7-G
c 3 292 86.1 329 50 A1662287 w51c01.x
c 4 292 86.1 369 60 A1792251 np78b10.y
c 5 292 86.1 380 60 A1792251 np78b10.y
c 6 266 78.5 378 39 A1876887 ny47g12.s
c 7 266 77.0 294 46 A1417931 t955e07.x
c 8 222 65.5 760 48 A1557474 PT2.1-10-
c 9 171 50.4 322 63 A1662287 w51c01.x
c 10 76 22.4 370 63 A1792251 np78b10.y
c 11 56 16.5 545 103 A1876887 ny47g12.s
c 12 34 10.0 531 104 A1417931 t955e07.x
c 13 30 8.8 417 90 A1557474 PT2.1-10-
c 14 30 8.8 641 79 A1662287 w51c01.x
c 15 30 8.8 645 79 A1792251 np78b10.y
c 16 30 8.8 652 79 A1876887 ny47g12.s
c 17 30 8.8 725 79 A1417931 t955e07.x
c 18 30 8.8 726 79 A1557474 PT2.1-10-
c 19 30 8.8 727 79 A1662287 w51c01.x
c 20 30 8.8 728 79 A1792251 np78b10.y
c 21 30 8.8 729 79 A1876887 ny47g12.s
c 22 29 8.6 397 36 A1417931 t955e07.x
c 23 29 8.6 398 36 A1557474 PT2.1-10-
c 24 29 8.6 407 24 A1662287 w51c01.x
c 25 29 8.6 408 24 A1792251 np78b10.y
c 26 29 8.6 409 24 A1876887 ny47g12.s
c 27 29 8.6 410 24 A1417931 t955e07.x
c 28 27 8.0 249 104 A1557474 PT2.1-10-
c 29 27 8.0 250 104 A1662287 w51c01.x
c 30 27 8.0 251 104 A1792251 np78b10.y
c 31 27 8.0 252 104 A1876887 ny47g12.s
c 32 27 8.0 253 104 A1417931 t955e07.x
c 33 27 8.0 254 104 A1557474 PT2.1-10-
c 34 27 8.0 255 104 A1662287 w51c01.x
c 35 27 8.0 256 104 A1792251 np78b10.y
c 36 27 8.0 257 104 A1876887 ny47g12.s
c 37 27 8.0 258 104 A1417931 t955e07.x
c 38 27 8.0 259 104 A1557474 PT2.1-10-
c 39 27 8.0 260 104 A1662287 w51c01.x
c 40 27 8.0 261 104 A1792251 np78b10.y
c 41 27 8.0 262 104 A1876887 ny47g12.s
c 42 27 8.0 263 104 A1417931 t955e07.x
c 43 27 8.0 264 104 A1557474 PT2.1-10-
c 44 27 8.0 265 104 A1662287 w51c01.x
c 45 27 8.0 266 104 A1792251 np78b10.y

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## ALIGNMENTS

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RESULT 1
LOCUS AA578209 375 bp mRNA EST 12-SEP-1997
DEFINITION n156f11.s1 NCI-CGAP_P4 Homo sapiens CDNA clone IMAGE:1044717
similar to contains Alu repetitive element; contains element MERA
repetitive element ; mRNA sequence.
ACCESSION AA578209
VERSION AA578209.1 GI:2356393
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Hominiidae; Homo.
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
On Sep 12, 1996 this sequence version replaced gi:1407086.
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1350
Email: Robert.Strausberg@nih.gov
Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuquai,
M.D., Michael R. Emmert-Buck, M.D., Ph.D.

```

```

JOURNAL COMMENT
On Sep 12, 1996 this sequence version replaced gi:1407086.
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1350
Email: Robert.Strausberg@nih.gov
Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuquai,
M.D., Michael R. Emmert-Buck, M.D., Ph.D.

```

```

CDNA Library Preparation: David B. Krizman, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.dlo.llnl.gov/Dbp/Image/Image.html

Insert Length: 395 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham.
Location/Qualifiers
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/db_xref="taxon:9606"
/clone="IMAGE:1044717"
/clone.lib="NCI-CGAP_P4"
/sex="male"
/tissue="prostate"
/dev_stage="adult"
/lab_host="DH10B"
/notes="Organ: prostate; Vector: PAMPI0; mRNA made from
prostate intraepithelial neoplasia (high-grade), CDNA
made by oligo-dr priming. Non-directionally cloned.
Size selected on agarose gel, average insert size 600 bp."

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BASE COUNT 110 a 87 c 90 g 88 t
ORIGIN

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Query Match 100.0%; Score 339; DB 35; Length 375;
Best Local Similarity 100.0%; Pred. No. 4.8e-169;
Matches 339; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 GACCAACAGAGCCGACCTGAGAGCTGAACCTTTAGCCGCTGCTTCTGCAAGTC 60
QY 61 AGCAAGCTGATTCGTCGTCCTGACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120
DB 61 AGCAAGCTGATTCGTCGTCCTGACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120
QY 121 TCTCAGTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
DB 121 TCTCAGTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
QY 122 TCTCAGTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
DB 122 TCTCAGTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180
QY 181 AAACATCTACTTGAACATCTACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 181 AAACATCTACTTGAACATCTACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 241 CTGGAATTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
DB 241 CTGGAATTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
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DB 301 TGAGCATGTAGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 339

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RESULT 2
LOCUS A1557474 642 bp mRNA EST 09-AUG-1999
DEFINITION PT2.1.7.G02.r tumor2 Homo sapiens CDNA 3', mRNA sequence.
ACCESSION A1557474
VERSION A1557474.1 GI:4489837
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Primates; Catarrhini; Hominiidae; Homo.
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
On Sep 12, 1996 this sequence version replaced gi:1407086.
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1350
Email: Robert.Strausberg@nih.gov
Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuquai,
M.D., Michael R. Emmert-Buck, M.D., Ph.D.

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5	160	78.0	380	60	AA631916	np78b10.s
6	134	65.4	378	39	AA878897	np47912.s
7	131	63.9	322	36	AA648866	np30h03.s
8	129	62.9	294	46	AT411921	tg55e07.x
9	127	62.0	760	48	AT557019	PT2.1-10-
10	76	37.1	370	63	AT972206	wr42d04.x
11	57	27.8	545	103	AG503933	RPCI-11-3
12	19	9.3	421	41	AT679571	AT056551
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14	18	8.8	326	28	AA081449	zn06906.f
15	18	8.8	522	39	AA835226	ak55b06.s
16	18	8.8	546	47	AT467857	cl363902.x
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18	17	8.3	268	74	AM208037	M111068E
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20	17	8.3	299	24	H83957	ys64f05.s1
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22	17	8.3	386	25	D80092	HUM027D06B
23	17	8.3	391	100	AO312074	RPCI-11-53
24	17	8.3	402	87	AO767933	HS_3089_A
25	17	8.3	408	105	AO620046	HS_5186_A
26	17	8.3	427	88	AO877464	HS_2146_A
27	17	8.3	441	91	AO145997	HS_2226_A
28	17	8.3	443	25	N70966	za34c02.s1
29	17	8.3	462	87	AO815740	HS_5283_B
30	17	8.3	468	104	AO555758	HS_5230_B
31	17	8.3	484	24	N31364	ys54g06.f1
32	17	8.3	485	30	AA197315	tg50f03.s
33	17	8.3	490	43	AT162663	AO21P320
34	17	8.3	506	62	AT1903753	IL-BT037-
35	17	8.3	516	22	H11831	ym11n07.f1
36	17	8.3	526	100	AO283408	RPCI-11-90
37	17	8.3	527	99	AO234569	HS_2054_A
38	17	8.3	541	100	AO313844	RPCI-11-94
39	17	8.3	541	104	AO563558	HS_5343_A
40	17	8.3	544	49	AT632528	wb10b03.x
41	17	8.3	546	103	AO479186	RPCI-11-2
42	17	8.3	554	64	AO022446	df43a12.y
43	17	8.3	566	81	B67277	T2N3TR TAM
44	17	8.3	575	104	AO507017	RPCI-11-2
45	17	8.3	579	103	AO488916	RPCI-11-2

ALIGNMENTS

RESULT 1  
XCUS AAS78209 375 bp mRNA EST 12-SEP-1997  
N156411.s1 NCI-CGAP\_P4 Homo sapiens CDNA clone IMAGE:1044717  
similar to contains Alu repetitive element; contains element MERA  
repetitive element; mRNA sequence.

ACCESSION AAS78209  
VERSION AAS78209.1 GI:2356393  
TWOORDS human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 375)  
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1407086.  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuagui,

FEATURES

source  
CDNA Library Preparation: David B. Krizman, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone Distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/BLN at:  
[www-bio.llnl.gov/bdrrp/image/image.html](http://www-bio.llnl.gov/bdrrp/image/image.html)  
Insert Length: 395 Std Error: 0.00  
Seq primer: -40ml3 fwd. RT from Amersham.  
Location/Qualifiers  
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/tissue\_type="prostatic intraepithelial neoplasia - high  
grade"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/note="Organ: prostate; Vector: pAMP10; mRNA made from  
prostate intraepithelial neoplasia (high-grade), CDNA  
made by oligo-dT priming. Non-directionally cloned.  
Size-selected on agarose gel, average insert size 600 bp."

BASE COUNT

110 a 87 c 90 g 88 t

Query Match 99.5%; Score 204; DB 35; Length 375;  
Best Local Similarity 100.0%; Pred. No. 3,4e-101;  
Matches 204; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2 CAAACAGAGCGGCTGAGAGGCTGAACCTTTAGCGGAGCTTGTTCAGAGTCAG 61  
4 CAAACAGAGCGGCTGAGAGGCTGAACCTTTAGCGGAGCTTGTTCAGAGTCAG 63  
62 CAGATGATTTGTTGCTCCACCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAG 121  
64 CAGATGATTTGTTGCTCCACCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAG 123  
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124 CAGATGATTTGTTGCTCCACCTTTCAGAGAGAGAGAGAGAGAGAGAGAGAG 183  
182 CATCTACTTGAACATCTACTG 205  
184 CATCTACTTGAACATCTACTG 207

RESULT 2

AT557474 642 bp mRNA EST 09-AUG-1999  
PT2.1-7-G02.r tumor2 Homo sapiens CDNA 3', mRNA sequence.  
VERSION A1557474.1 GI:4489837  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 642)  
Huang, G.M., Ng, W.L., Farakas, J., He, L., Liang, H.A., Gordon, D., Yu, J.,  
and Hood, L.  
Prostate cancer expression profiling by CDNA sequencing analysis  
Genomics 59 (2), 178-186 (1999)  
99339982  
On Jun 5, 1998 this sequence version replaced gi:3187163.  
Contact: Guyang Matthew Huang  
Jerooy Hood  
University of Washington  
Department of Molecular Biotechnology, Box 357730, University of  
Washington Seattle, WA 98195

2 311 89.9 329 50 -A1682287  
 3 300 86.7 380 36 -A613916  
 4 292 84.4 375 35 -A578709  
 5 292 84.4 642 48 -A1557474  
 6 261 75.4 294 46 -A444991  
 7 257 74.3 378 39 -A4616097  
 8 222 64.2 760 48 -A1557019  
 9 182 52.6 322 36 -A618586  
 10 76 22.0 370 63 -A1923486  
 11 53 15.3 545 103 -A0509931  
 12 34 9.8 531 104 -A0560799  
 13 30 8.7 417 90 -A0483227  
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 27 27 7.8 249 104 -A0586994  
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## ALIGNMENTS

RESULT 1  
 LOCUS A1792251  
 DEFINITION np78b10.95 NCI-CGAP Pr2 Homo sapiens cDNA clone IMAGE:1132411  
 similar to contains Alu repetitive element; contains element MER4  
 repetitive element; mRNA sequence.

ACCESSION A1792251  
 VERSION A1792251.1  
 SOURCE human  
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 369)  
 AUTHORS NCI/NIH-CGAP  
 TITLE National Cancer Institute / National Institute of Dental Research,  
 Cancer Genome Anatomy Project (CGAP), Tumor Gene Index

JOURNAL Unpublished (1997)  
 COMMENT On Jun 5, 1998 this sequence version replaced g1:3187227.  
 Other ESTs: np78b10.x5  
 Contact: Robert Strausberg, Ph.D.  
 Tel: (301) 496-1550

M.D., Michael Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: David B. Kitzman, Ph.D.  
 CDNA Library Arrived by: Genome Systems Inc., Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LMW at:  
 www.bio.lnuh.gov/bcrp/image/image.html

This read is a RESEQUENCE of a previously sequenced human clone  
 Original clone citation: see original entry for original citation  
 Information

This 5' resequenced clone has no previous 5' data to verify this  
 new read against  
 Putative full length read is 370  
 The vector to vector length is 370  
 Seq primer: -40BP from Gibco.

## FEATURES

source  
 1..369  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="IMAGE:1132411"  
 /clone\_id="NCI-CGAP\_Pr2"  
 /sex="Male"  
 /dev\_stage="45 years old"  
 /lab\_host="DH10B"  
 /note="Vector: pAMP10: Site-1: NotI; Site-2: EcoRI; 1st  
 strand cDNA was primed with oligo(dT)17 on 50 ng of  
 DNase-treated, total cellular RNA obtained from  
 5,000-10,000 microdissected preneoplastic cells  
 histologically-determined to be prostatic intraepithelial  
 neoplasia 2 (PIN2) cells. Double-stranded cDNA was  
 ligated to EcoRI adaptors, 5 cycles of PCR applied to the  
 cDNA with an adaptor-specific primer, and the resulting  
 PCR product subcloned into pAMP10 by the UDG-cloning  
 method (Life Technologies). Average insert size is 600  
 bp. NOTE: Not directionally cloned. This library was  
 constructed by David Kitzman."

## BASE COUNT

101 a 88 c 93 g 87 t

Query Match  
 Best Local Similarity 100.0%; Pred. No. 2.5e-172; Indels 0; Gaps 0;  
 Matches 344; Conservative

Db 3 AAGCGTGCAGAACAGAGCCCACTGGAGGCTGAACCTTTGGCGATGCTGCTGCA 62  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 3 AAGCGTGCAGAACAGAGCCCACTGGAGGCTGAACCTTTGGCGATGCTGCTGCA 62  
 Db 7 AAGCGTGCAGAACAGAGCCCACTGGAGGCTGAACCTTTGGCGATGCTGCTGCA 66  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 7 AAGCGTGCAGAACAGAGCCCACTGGAGGCTGAACCTTTGGCGATGCTGCTGCA 66  
 Db 63 AGGTCAAGCAAGCTGATGTTGTCCTCCACCTTGGAGAGAGAGAGAGATGTTGCCG 122  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 63 AGGTCAAGCAAGCTGATGTTGTCCTCCACCTTGGAGAGAGAGAGATGTTGCCG 122  
 Db 67 AGGTCAAGCAAGCTGATGTTGTCCTCCACCTTGGAGAGAGAGATGTTGCCG 126  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 67 AGGTCAAGCAAGCTGATGTTGTCCTCCACCTTGGAGAGAGAGATGTTGCCG 126  
 Db 123 CCATTTTCAGATCAAGAGCCGCGCATCTTACACCTCCCAAGAGTCTTTCTCTAA 186  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 123 CCATTTTCAGATCAAGAGCCGCGCATCTTACACCTCCCAAGAGTCTTTCTCTAA 186  
 Db 127 CCATTTTCAGATCAAGAGCCGCGCATCTTACACCTCCCAAGAGTCTTTCTCTAA 186  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 127 CCATTTTCAGATCAAGAGCCGCGCATCTTACACCTCCCAAGAGTCTTTCTCTAA 186  
 Db 183 TAAGAAACATCTACTTGAACATCTACTGCGGAGACACGAGTGTGCTGAGCCTG 246  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 183 TAAGAAACATCTACTTGAACATCTACTGCGGAGACACGAGTGTGCTGAGCCTG 246  
 Db 187 TAAGAAACATCTACTTGAACATCTACTGCGGAGACACGAGTGTGCTGAGCCTG 246  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 187 TAAGAAACATCTACTTGAACATCTACTGCGGAGACACGAGTGTGCTGAGCCTG 246  
 Db 243 TAATTCGAAATTCGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 302  
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 Query 243 TAATTCGAAATTCGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 302  
 Db 247 TAATTCGAAATTCGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 306  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 247 TAATTCGAAATTCGGAGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 306  
 Db 303 CAGCTGCGGCAATGTAGCAAGAGCGCTGTCTTTATACATA 350  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 303 CAGCTGCGGCAATGTAGCAAGAGCGCTGTCTTTATACATA 350  
 Db 307 CAGCTGCGGCAATGTAGCAAGAGCGCTGTCTTTATACATA 350  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Query 307 CAGCTGCGGCAATGTAGCAAGAGCGCTGTCTTTATACATA 350

RESULT 2  
 LOCUS A1682287  
 329 bp mRNA EST 26-MAY-1999



11:52:22 2000

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu  
Insert Size: 742  
High quality sequence stops: 258 Source: IMAGE Consortium, LIND  
This clone is available royalty-free through LIND; contact the  
IMAGE Consortium ([info@image.lind.gov](mailto:info@image.lind.gov)) for further information  
Insert Length: 742 Std Error: 0.00  
Seq primer: T3  
High quality sequence stop: 258.  
Location/Qualifiers  
1. 387  
source

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alignment_block:
US-09-065-672-12 x T83743      ..
Align seg 1/1 to: T83743 from: 1 to: 387

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12  AAHSLSEUTHrThnSerLySerLaIaPheLeuSerAnLysThnSe 28
    ||| :|||:::||||: |||:::||||:||||:
10  GGGTACTACGACGATGATTAACAAAGAAGCATTTGAATTAATGA 59
    ||| :|||:::||||: |||:::||||:||||:
28  rThreLeuYHSLseuLeuGlyGluThrArgSerAspLySerAlaCysA 45
    ||| :|||:::||||: |||:::||||:||||:
60  CATCTCG.....GCCAGGACACAGTGGCTCATCTCTTA 91

45  snSerGlyLyLeSerGlyGlyArgLyArgLySile 56
    ||:::|||| |||:::||||:||||:
92  ATTNCAGCATTTTGGAGAGCCCAAGCTAGAGGATC 126

seq_name: gb_ests16:AA570478

```

Tel.: (301) 496-1550  
 Email: Robert\_Strausberg@nih.gov  
 Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R.  
 Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: Stratagene, Inc., David B. Kitzman,  
 Ph.D.  
 CDNA Library Arraying: Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
[www-bio.llnl.gov/dbp/image/image.html](http://www-bio.llnl.gov/dbp/image/image.html)

```

FEATURES
    source
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 440.
location/Qualifiers
    1. .495
    /organism="Homo sapiens"
    /db_xref="taxon:9606"
    /clone="IMAGE:1018250"
    /clone_1fb="NCI CGAP_Schl"
    /issue_type="Schwannoma tumor"
    /lab_host="SOLR (Kanamycin resistant)"
    /note="Vector: Bluescript SK-; Site_1: EcoRI; Site_2:
XhoI; Cloned unidirectionally. Primer: Oligo dt. Two
pooled bulk Schwannoma tumors. 5' adaptor sequence: 5'
GAATTCGGCAGCAG 3' 3' adaptor sequence: 5'
CTCAGCTTTTTTTTTTTTTTTT 3' Average insert size: 1.2 kb."
BASE COUNT
134 a 129 c 114 g 118 t
ORIGIN

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alignment_scores:
    Quality:      76.50          Length:      50
    Ratio:        2.250         Gaps:       2
    Percent Similarity: 68.000   Percent Identity: 40.000

alignment_block:
US-09-065-672-12 x AA570478/rev ..

Align seg 1/1 to reverse of: AA570478 from: 1 to: 495

10 glyProAlAHISleuthrThrSerIysSerAlaPheLeuSerAnIly 26
||| ::::: |||:::||||:::||||: ::::
227 GGATGGCGGTGAGTCAAGACACTTCAGATCAGCCGTGCATTACATGTGGAAG 178
26 sThrSerThrLeuLys.....HisLeuLeuGlyGIuThrArgSerAspc 41
::: ||| ||||| : ||| ||:::
177 CCCCCTTTACTATAAAATACAAAAATTATGCCGGGCAT.....GGTG 137
41 lysSerAlaCysAsnSerGlyIleSerGlyGlyArgGlyArgIyIlePro 57
:::::||||::: :::: |||:::||||:::||||: ::::
136 CAGGCGCGCTGTGATCCCCGACTCATCAGAGAGGCCAAGGCAAGAATCCCT 87

seq_name: gb_gss14:A0531229
```



ORGANISM	HOMO SAPIENS	102(r)
----------	--------------	--------

**REFERENCE**

**AUTHORS**

1 (bases 1 to 331)

Auffray,C., Behar,G., Bois,F., Bouchier,C., da Silva,C.,  
Devignes,M.D., Duprat,S., Houlgatte,R., Jumeau,M.N., Lamy,B.,  
Eculieira, F.M., Calzavara, H.

Pub Order 10-27-94



Tumor Gene Index.  
Unpublished (1997).

```

5  H13pheeAaspImInlyProAlAhSteuTrHrrSerLysSeraIaPh 21
10 H13pheeAaspImInlyProAlAhSteuTrHrrSerLysSeraIaPh 21
15 CATTTTACGAGAAAGGGAACCATTTACCTTACACACAAAGTATAGCTGTAA 107
20 eIeuSerAaInlySlys 26
25 ::::::::::::::::::::::
102 AATCTCAATAATAGAAA 117

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102 AATCTCAATAGAAA 117

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location/qualifiers
1. .334
/organism="Homo sapiens"
/db_xref="GDB:1242390"
/db_xref="taxon:9606"
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   |||||  ::::|::|::|::|::|::|::|::|::|::|::|::|::|
168 CTAATAATCAAAATATATAGATGTGGCTATGTGGGGC...GGCTGTAAATCC 122
   |||||  ::::|::|::|::|::|::|::|::|::|::|::|::|::|
18  rGlytIeSerGlyGlyArGylArGylS 27
   ::::|::|::|::|::|::|::|::|::|::|::|::|::|
121 CAGCTACTCAGGAGCGAGCGAGGAGGAAA 94
   ::::|::|::|::|::|::|::|::|::|::|::|::|::|

```

2	316	93.2	642	48	A1557474	PT2.1.7-G
3	292	86.1	329	50	A1682287	wc1c01.x
4	292	86.1	369	60	A1792257	np78b10.y
5	292	86.1	380	36	AA631916	np78b10.s
6	266	78.5	378	39	AA876897	ny47912.s
7	261	77.0	294	46	AA417931	td55e07.x
8	222	65.5	760	48	A1557019	pt2.1.10
9	171	50.4	322	36	AA618586	np30h03.s
10	76	22.4	370	63	AA161558	w142d04.x
11	56	16.5	545	103	AQ503931	RPCT-11-3
12	34	10.0	531	104	AQ506099	HS-2079-B
13	30	8.8	417	90	AQ038229	CIT-HSP-2
14	30	8.8	641	79	AG012358	Homo sapi
15	30	8.8	645	79	AG012366	Homo sapi
16	30	8.8	652	79	AG012359	Homo sapi
17	30	8.8	725	79	AG012570	Homo sapi
18	30	8.8	726	79	AG012595	Homo sapi
19	30	8.8	727	79	AG012593	Homo sapi
20	30	8.8	742	79	AG012594	Homo sapi
21	30	8.8	752	79	AA620300	af05904.s
22	29	8.6	390	24	AA620300	af05904.s
23	29	8.6	397	36	AA455041	aa04a06.s
24	29	8.6	407	24	H73336	vu05d01.s1
25	29	8.6	504	82	AQ727006	HS-5431-A
26	27	8.0	213	25	N70900	za33a05.s1
27	27	8.0	249	104	AQ586994	RPCT-11-4
28	27	8.0	272	21	T92000	ye01c12.s1
29	27	8.0	325	37	AA702361	z187g02.s
30	27	8.0	326	21	T96961	ye50f08.s1
31	27	8.0	327	64	AA089007	xd34b09.x
32	27	8.0	328	35	AA588288	no25c12.s
33	27	8.0	359	37	AA714684	nx91h08.s
34	27	8.0	380	34	AA503720	ne50f03.s
35	27	8.0	383	47	AA500579	tn93b04.x
36	27	8.0	387	26	W47327	zc39c12.s1
37	27	8.0	390	47	A1522295	tl76e03.x
38	27	8.0	395	21	R02172	ye87e07.s1
39	27	8.0	396	26	W45269	zc82e09.s1
40	27	8.0	404	21	R01398	ye77a12.s1
41	27	8.0	424	26	W47326	zc39c12.x1
42	27	8.0	425	38	AA807307	cc38a01.s
43	27	8.0	427	45	AA139788	ta96f08.x
44	27	8.0	435	87	AQ757670	HS-2274-B

## ALIGNMENTS

RESULT 1  
AA578209 mRNA EST 12-SEP-1997  
LOCUS n156f11.s1 NCI-CGAP\_Pt4 Homo sapiens cDNA clone IMAGE:1044717  
DEFINITION similar to contains Alu repetitive element; contains element MBR4  
repetitive element; mRNA sequence.

ACCESSION AA578209  
VERSION AA578209.1  
KEYWORDS GI:2356393  
SOURCE EST.

ORGANISM Homo sapiens  
human.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1 (bases 1 to 375)  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1407086.  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert\_Strausberg@nih.gov  
Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuquib,  
M.D., Michael R. Emmert-Buck, M.D., Ph.D.

JOURNAL COMMENT

CDNA Library Preparation: David B. Krizman, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LINL at:  
www-bio.linn.gov/dbip/image/image.html

Insert Length: 395 Std Error: 0.00  
Seq primer: -40ml3 fwd. ER from Amersham.  
Location/Qualifiers

FEATURES  
source  
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/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1044717"  
/clone\_lib="NCI-CGAP\_Pt4"  
/sex="male"  
/tissue\_type="prostatic intraepithelial neoplasia - high  
grade"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/note="Organ: prostate; Vector: pAMP10; mRNA made from  
prostate intraepithelial neoplasia (high-grade), cDNA  
made by oligo-dT priming. Non-directionally cloned.  
Size selected on agarose gel, average insert size 600 bp."

BASE COUNT 110 a 87 c 90 g 88 t  
ORIGIN

Query Match 100.0%; Score 339; DB 35; Length 375;  
Best local similarity 100.0%; Pred. No. 4.8e-169;  
Matches 339; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GACCAACAGAGCGCCACCTGGAGGCTGAACCTTAGCCGATCTGCTCAAGTC 60  
1 GACCAACAGAGCGCCACCTGGAGGCTGAACCTTAGCCGATCTGCTCAAGTC 60  
61 AGGCAAGCGAGATTCGTGCTCCACCTTTGACAGAGAACAGATGTTGTCCGCATT 120  
61 AGGCAAGCGAGATTCGTGCTCCACCTTTGACAGAGAACAGATGTTGTCCGCATT 120  
61 AGGCAAGCGAGATTCGTGCTCCACCTTTGACAGAGAACAGATGTTGTCCGCATT 120  
121 TCTCAGATCAAGAGCGGCCCATCTTACTACCTCCAGAGTCTTTCTCTAATAA 180  
121 TCTCAGATCAAGAGCGGCCCATCTTACTACCTCCAGAGTCTTTCTCTAATAA 180  
121 TCTCAGATCAAGAGCGGCCCATCTTACTACCTCCAGAGTCTTTCTCTAATAA 180  
181 AAACATCTACTTGAACATCTACTGCGCGACACGAGATGATGCTGTAATT 240  
181 AAACATCTACTTGAACATCTACTGCGCGACACGAGATGATGCTGTAATT 240  
241 CTGGAATTCGGAGCGCGAGAGATCTCTGAGCAGAGATTCACAGACGCC 300  
241 CTGGAATTCGGAGCGCGAGAGATCTCTGAGCAGAGATTCACAGACGCC 300  
301 TGGGCATGTAGCAAGACGCTGTCTCTATTATACATA 339  
301 TGGGCATGTAGCAAGACGCTGTCTCTATTATACATA 339

RESULT 2  
A1557474 642 bp mRNA EST 09-AUG-1999  
LOCUS PT2.1.7.G02.r tumor2 Homo sapiens cDNA 3', mRNA sequence.  
DEFINITION A1557474  
ACCESSION A1557474  
VERSION A1557474.1  
KEYWORDS GI:4489837  
SOURCE EST.  
ORGANISM Homo sapiens  
human.  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1 (bases 1 to 642)  
Huang, G.M., Ng, W.L., Faras, J., He, L., Liang, H.A., Gordon, D., Yu, J.  
and Hood, L.  
prostate cancer expression profiling by cDNA sequencing analysis

DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
[www.bio.llnl.gov/bdrp/image/image.html](http://www.bio.llnl.gov/bdrp/image/image.html)

Seq primer: -40m13 fwd. ET from Amersham  
 High quality sequence stop: 376.

FEATURES  
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1. .378  
 /organism="Homo sapiens"  
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 /clone\_image="1274950"  
 /clone\_id="NCI\_CGAP\_Pr12"  
 /sex="male"  
 /tissue\_type="metastatic prostate bone lesion"  
 /lab\_host="DH10B"  
 /note="Vector: PAMPI0; RNA made from metastatic prostate  
 lesion of the bone, cDNA made by oligo-dT priming.  
 Non-directionally cloned. Size-selected on agarose gel,  
 average insert size 600 bp. Library made by D. Kitzman,  
 NIH."

BASE COUNT 106 a 89 c 94 g 89 t

# alignment\_scores:

Quality: 298.00 Length: 57  
 Ratio: 5.228 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-065-672-12 x AA876897

Align seg 1/1 to: AA876897 from: 1 to: 378

1 MetLeuCysAlaHisPheSerAspGlnGlyProAlaHisLeuThrThse 17  
 |||||||  
 120 ATGTTGTGCGCCCATTTCTCAGATCAAGAGCCGCCCATCTTACTACTC 169  
 |||||||  
 17 rlysserAlaPheLeuSerAsnLysLysThrSerThrLeuLysHisLeuL 34  
 |||||||  
 170 CAAGAGTGTCTTCTCTCTAATAAACAACATCTTGAACATCTAC 219  
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 34 euglGluThrArgSerAspGlnSerAlaCysAsnserGlyIleSerGly 50  
 |||||||  
 220 TGGCGGAGACGACGAGATGATGCTCAGCTGATCTGGAATTCGCGA 269  
 |||||||  
 51 GtYArGtGtYArGtYsIlePro 57  
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 270 GGCCGAGCGCAGAGAGATTCT 290  
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 seq\_name: gb\_est17:AA631916

## seq\_documentation\_block:

LOCUS AA631916 380 bp mRNA EST 30-OCT-1997  
 DEFINITION np78b10.s1 NCI-CGAP\_Pr2 Homo sapiens cDNA clone IMAGE:1132411  
 Similar to contains Alu repetitive element; contains element MERA4  
 repetitive element ; mRNA sequence.

ACCESSION AA631916  
 VERSION AA631916.1 GI:2554527  
 KEYWORDS EST.  
 SOURCE human.  
 ORGANISM Homo sapiens

REFERENCE Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Mammalia:  
 Eutheria: Primates: Catarrhini: Hominiidae: Homo.  
 1 (bases 1 to 380)

AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index

JOURNAL Unpublished (1997)

COMMENT On Sep 12, 1996 this sequence version replaced gi:1406914.  
 Contact: Robert Strausberg, Ph.D.  
 (301) 496-1550

Email: Robert.Strausberg@nih.gov  
 Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuagui,  
 M.D., Michael Emmert-Buck, M.D., Ph.D.  
 CDNA Library Preparation: David B. Kitzman, Ph.D.  
 CDNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.  
 DNA Sequencing by: Washington University Genome Sequencing Center  
 Clone distribution: NCI-CGAP clone distribution information can be  
 found through the I.M.A.G.E. Consortium/LLNL at:  
[www.bio.llnl.gov/bdrp/image/image.html](http://www.bio.llnl.gov/bdrp/image/image.html)

Insert Length: 470 Std Error: 0.00  
 Seq primer: -40m13 fwd. ET from Amersham.  
 Location/Qualifiers

# FEATURES

source

1. .380  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone\_image="1132411"  
 /clone\_id="NCI\_CGAP\_Pr2"  
 /sex="Male"  
 /dev\_stage="45 years old"  
 /lab\_host="DH10B"  
 /note="Vector: PAMPI0; Site-1: NotI; Site-2: EcoRI; 1st  
 strand cDNA was primed with oligo(dT)17 on 50 ng of  
 DNase-treated, total cellular RNA obtained from  
 5,000-10,000 microdissected preneoplastic cells  
 histologically-determined to be prostatic intraepithelial  
 neoplasia 2 (PIN2) cells. Double-stranded cDNA was  
 ligated to EcoRI adaptors, 5 cycles of PCR applied to the  
 cDNA with an adaptor-specific primer, and the resulting  
 PCR product subcloned into PAMPI0 by the UPC-cloning  
 method (Life Technologies). Average insert size is 600  
 bp. NOTE: Not directionally cloned. This library was  
 constructed by David Kitzman."

BASE COUNT 87 a 92 c 90 g 111 t

## ORIGIN

alignment\_scores:  
 Quality: 298.00 Length: 57  
 Ratio: 5.228 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

## alignment\_block:

US-09-065-672-12 x AA631916/rev

Align seg 1/1 to reverse of: AA631916 from: 1 to: 380

1 MetLeuCysAlaHisPheSerAspGlnGlyProAlaHisLeuThrThse 17  
 |||||||  
 264 ATGTTGTGCGCCCATTTCTCAGATCAAGAGCCGCCCATCTTACTACTC 215  
 |||||||  
 17 rlysserAlaPheLeuSerAsnLysLysThrSerThrLeuLysHisLeuL 34  
 |||||||  
 214 CAAGAGTGTCTTCTCTCTAATAAACAACATCTTGAACATCTAC 165  
 |||||||  
 34 euglGluThrArgSerAspGlnSerAlaCysAsnserGlyIleSerGly 50  
 |||||||  
 164 TGGCGGAGACGACGAGATGATGCTCAGCTGATCTGGAATTCGCGA 115  
 |||||||  
 51 GtYArGtGtYArGtYsIlePro 57  
 |||||||  
 114 GGCCGAGCGCAGAGAGATTCT 94  
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seq\_name: gb\_est29:AI557474

## seq\_documentation\_block:

LOCUS AI557474 642 bp mRNA EST 09-AUG-1999  
 DEFINITION PT2.1-7.G02.r tumor2 Homo sapiens cDNA 3', mRNA sequence.

ACCESSION AI557474

VERSION AI557474.1 GI:4489837

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

11:55

Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-065-672-13 x A1972251

Align seg 1/1 to: A1972251 from: 1 to: 369

1 MetleucysAlahisPheSeraspGinglyProAlahisLeuthrhrse 17  
 |||  
 116 ATGTTGCGCCCATTTCTCAGATCAAGACCGCCCATCTTACTACTC 165

17 rlysserAlaPheLeuserasnllysthrsr 28  
 |||  
 166 CAAGAGTGGCTTCTCTCTAATAGAAACATCT 199

seq\_name: gb\_est37:A1972706

seq\_documentation\_block:

LOCUS A1972706 370 bp mRNA EST 25-AUG-1999  
 DEFINITION w42d04.x1 NCI\_CGAP\_P128 Homo sapiens cDNA clone IMAGE:2490343 3'  
 similar to contains Alu repetitive element;contains element MER4  
 repetitive element ;, mRNA sequence.

ACCESSION A1972706  
 VERSION A1972706.1 GI:5769532  
 KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

REFERENCE 1 (bases 1 to 370)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

On Dec 20, 1995 this sequence version replaced gi:1135022.

Contact: Robert Strausberg, Ph.D.

Email: (301) 496-1550

Tel: (301) 496-1550

Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R.

Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-065-672-13 x A1972706/rev

Align seg 1/1 to reverse of: A1972706 from: 1 to: 370

1 MetleucysAlahisPheSeraspGinglyProAlahisLeuthrhrse 17  
 |||  
 286 ATGTTGCGCCCATTTCTCAGATCAAGACCGCCCATCTTACTACTC 237

17 rlysserAlaPheLeuserasnllysthrsr 28  
 |||  
 236 CAAGAGTGGCTTCTCTCTAATAGAAACATCT 203

seq\_name: gb\_est16:AA578209

seq\_documentation\_block:

LOCUS AA578209 375 bp mRNA EST 12-SEP-1997  
 DEFINITION n156f11.s1 NCI\_CGAP\_P14 Homo sapiens cDNA clone IMAGE:1044717  
 similar to contains Alu repetitive element;contains element MER4  
 repetitive element ;, mRNA sequence.

ACCESSION AA578209  
 VERSION AA578209.1 GI:2356393  
 KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

REFERENCE 1 (bases 1 to 375)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

On Sep 12, 1996 this sequence version replaced gi:1407066.

Contact: Robert Strausberg, Ph.D.

Email: (301) 496-1550

Tel: (301) 496-1550

Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuang,

M.D., Michael R. Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: David B. Krizman, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-065-672-13 x A1972706/rev

Align seg 1/1 to reverse of: A1972706 from: 1 to: 370

1 MetleucysAlahisPheSeraspGinglyProAlahisLeuthrhrse 17  
 |||  
 286 ATGTTGCGCCCATTTCTCAGATCAAGACCGCCCATCTTACTACTC 237

17 rlysserAlaPheLeuserasnllysthrsr 28  
 |||  
 236 CAAGAGTGGCTTCTCTCTAATAGAAACATCT 203

seq\_name: gb\_est16:AA578209

seq\_documentation\_block:

LOCUS AA578209 375 bp mRNA EST 12-SEP-1997  
 DEFINITION n156f11.s1 NCI\_CGAP\_P14 Homo sapiens cDNA clone IMAGE:1044717  
 similar to contains Alu repetitive element;contains element MER4  
 repetitive element ;, mRNA sequence.

ACCESSION AA578209  
 VERSION AA578209.1 GI:2356393  
 KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

REFERENCE 1 (bases 1 to 375)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

On Sep 12, 1996 this sequence version replaced gi:1407066.

Contact: Robert Strausberg, Ph.D.

Email: (301) 496-1550

Tel: (301) 496-1550

Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuang,

M.D., Michael R. Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: David B. Krizman, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/dbp/image/image.html

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www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-065-672-13 x A1972706/rev

Align seg 1/1 to reverse of: A1972706 from: 1 to: 370

1 MetleucysAlahisPheSeraspGinglyProAlahisLeuthrhrse 17  
 |||  
 286 ATGTTGCGCCCATTTCTCAGATCAAGACCGCCCATCTTACTACTC 237

17 rlysserAlaPheLeuserasnllysthrsr 28  
 |||  
 236 CAAGAGTGGCTTCTCTCTAATAGAAACATCT 203

seq\_name: gb\_est16:AA578209

seq\_documentation\_block:

LOCUS AA578209 375 bp mRNA EST 12-SEP-1997  
 DEFINITION n156f11.s1 NCI\_CGAP\_P14 Homo sapiens cDNA clone IMAGE:1044717  
 similar to contains Alu repetitive element;contains element MER4  
 repetitive element ;, mRNA sequence.

ACCESSION AA578209  
 VERSION AA578209.1 GI:2356393  
 KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

REFERENCE 1 (bases 1 to 375)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

On Sep 12, 1996 this sequence version replaced gi:1407066.

Contact: Robert Strausberg, Ph.D.

Email: (301) 496-1550

Tel: (301) 496-1550

Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuang,

M.D., Michael R. Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: David B. Krizman, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

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www.bio.llnl.gov/dbp/image/image.html

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www.bio.llnl.gov/dbp/image/image.html

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www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-065-672-13 x A1972706/rev

Align seg 1/1 to reverse of: A1972706 from: 1 to: 370

1 MetleucysAlahisPheSeraspGinglyProAlahisLeuthrhrse 17  
 |||  
 286 ATGTTGCGCCCATTTCTCAGATCAAGACCGCCCATCTTACTACTC 237

17 rlysserAlaPheLeuserasnllysthrsr 28  
 |||  
 236 CAAGAGTGGCTTCTCTCTAATAGAAACATCT 203

seq\_name: gb\_est16:AA578209

seq\_documentation\_block:

LOCUS AA578209 375 bp mRNA EST 12-SEP-1997  
 DEFINITION n156f11.s1 NCI\_CGAP\_P14 Homo sapiens cDNA clone IMAGE:1044717  
 similar to contains Alu repetitive element;contains element MER4  
 repetitive element ;, mRNA sequence.

ACCESSION AA578209  
 VERSION AA578209.1 GI:2356393  
 KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

REFERENCE 1 (bases 1 to 375)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

On Sep 12, 1996 this sequence version replaced gi:1407066.

Contact: Robert Strausberg, Ph.D.

Email: (301) 496-1550

Tel: (301) 496-1550

Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuang,

M.D., Michael R. Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: David B. Krizman, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

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www.bio.llnl.gov/dbp/image/image.html

Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-065-672-13 x A1972706/rev

Align seg 1/1 to reverse of: A1972706 from: 1 to: 370

1 MetleucysAlahisPheSeraspGinglyProAlahisLeuthrhrse 17  
 |||  
 286 ATGTTGCGCCCATTTCTCAGATCAAGACCGCCCATCTTACTACTC 237

17 rlysserAlaPheLeuserasnllysthrsr 28  
 |||  
 236 CAAGAGTGGCTTCTCTCTAATAGAAACATCT 203

seq\_name: gb\_est16:AA578209

seq\_documentation\_block:

LOCUS AA578209 375 bp mRNA EST 12-SEP-1997  
 DEFINITION n156f11.s1 NCI\_CGAP\_P14 Homo sapiens cDNA clone IMAGE:1044717  
 similar to contains Alu repetitive element;contains element MER4  
 repetitive element ;, mRNA sequence.

ACCESSION AA578209  
 VERSION AA578209.1 GI:2356393  
 KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

REFERENCE 1 (bases 1 to 375)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

On Sep 12, 1996 this sequence version replaced gi:1407066.

Contact: Robert Strausberg, Ph.D.

Email: (301) 496-1550

Tel: (301) 496-1550

Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuang,

M.D., Michael R. Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: David B. Krizman, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

www.bio.llnl.gov/dbp/image/image.html

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www.bio.llnl.gov/dbp/image/image.html

Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block:  
US-09-065-672-13 x A1972706/rev

Align seg 1/1 to reverse of: A1972706 from: 1 to: 370

1 MetleucysAlahisPheSeraspGinglyProAlahisLeuthrhrse 17  
 |||  
 286 ATGTTGCGCCCATTTCTCAGATCAAGACCGCCCATCTTACTACTC 237

17 rlysserAlaPheLeuserasnllysthrsr 28  
 |||  
 236 CAAGAGTGGCTTCTCTCTAATAGAAACATCT 203

seq\_name: gb\_est16:AA578209

seq\_documentation\_block:

LOCUS AA578209 375 bp mRNA EST 12-SEP-1997  
 DEFINITION n156f11.s1 NCI\_CGAP\_P14 Homo sapiens cDNA clone IMAGE:1044717  
 similar to contains Alu repetitive element;contains element MER4  
 repetitive element ;, mRNA sequence.

ACCESSION AA578209  
 VERSION AA578209.1 GI:2356393  
 KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;

REFERENCE 1 (bases 1 to 375)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

JOURNAL Tumor Gene Index

COMMENT Unpublished (1997)

On Sep 12, 1996 this sequence version replaced gi:1407066.

alignment\_block:

US-09-065-672-13 x AA578209

Align seg 1/1 to: AA578209 from: 1 to: 375

1 MetleucysAlaHisPheSerAspGlnGlyProAlaHisLeuThrThr 17  
 105 ATGTGTGGCCCATTTCTCAGATCAAGAGACCGCCCATCTTACTACTC 154  
 17 rlysserAlaPheLeuSerAsnLysLysThrSer 28  
 155 CAAGAGTGCCTTTCTCTCTAATAGAAACATCT 188

seq\_name: gb\_est20:AA876897

seq\_documentation\_block:

LOCUS AA876897 378 bp mRNA EST 25-MAR-1998  
 DEFINITION ny47912.s1 NCI-CGAP\_P12 Homo sapiens cDNA clone IMAGE:1274950  
 similar to contains Alu repetitive element:contains element LTR3  
 repetitive element ; mRNA sequence.

ACCESSION AA876897

VERSION AA876897.1 GI:285974

KEYWORDS EST

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominoidea; Homo.

REFERENCE 1 (bases 1 to 378)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index

JOURNAL Unpublished (1997)

On Feb 13, 1998 this sequence version replaced gi:2761085.

Contact: Robert Strausberg, Ph.D.

Tel: (301) 496-1550

Email: Robert.Strausberg@nih.gov

Tissue Procurement: W. Douglas Figg, Ph.D., Paul H. Duray, M.D.,  
 Rodrigo F. Chuagui, M.D., Michael R. Emmert-Buck, M.D., Ph.D.

cDNA Library Preparation: David B. Krizman, Ph.D.

cDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/bdrp/image/image.html

Seq primer: -40m13 fwd. ET from AmerSham  
 High quality sequence stop: 376

Location/Qualifiers

1. 378  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone\_image="1274950"  
 /clone\_lib="NCI-CGAP\_P12"  
 /sex="male"  
 /tissue="metastatic prostate bone lesion"  
 /lab\_host="DH10B"  
 /note="Vector: PAMP10: mRNA made from metastatic prostate  
 lesion of the bone, cDNA made by oligo-dT priming.  
 Non-directionally cloned. Size-selected on agarose gel,  
 average insert size 600 bp. Library made by D. Krizman,  
 NIH."  
 BASE COUNT 106 a 89 c 94 g 89 t  
 ORIGIN

alignment\_scores:

Quality: 146.00 Length: 28  
 Ratio: 5.214 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

3-13 x AA876897

Align seg 1/1 to: AA876897 from: 1 to: 378

1 MetleucysAlaHisPheSerAspGlnGlyProAlaHisLeuThrThr 17  
 120 ATGTGTGGCCCATTTCTCAGATCAAGAGACCGCCCATCTTACTACTC 169  
 17 rlysserAlaPheLeuSerAsnLysLysThrSer 28  
 170 CAAGAGTGCCTTTCTCTCTAATAGAAACATCT 203

seq\_name: gb\_est17:AA631916

seq\_documentation\_block:

LOCUS AA631916 380 bp mRNA EST 30-OCT-1997  
 DEFINITION ny78b10.s1 NCI-CGAP\_P12 Homo sapiens cDNA clone IMAGE:1132411  
 similar to contains Alu repetitive element:contains element MBR4  
 repetitive element ; mRNA sequence.

ACCESSION AA631916

VERSION AA631916.1 GI:254527

KEYWORDS EST

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Primates; Catarrhini; Hominoidea; Homo.

REFERENCE 1 (bases 1 to 380)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
 Tumor Gene Index

Unpublished (1997)

On Sep 12, 1996 this sequence version replaced gi:1406914.

Contact: Robert Strausberg, Ph.D.

Tel: (301) 496-1550

Email: Robert.Strausberg@nih.gov

Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuagui,  
 M.D., Michael Emmert-Buck, M.D., Ph.D.

cDNA Library Preparation: David B. Krizman, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/bdrp/image/image.html

Insert Length: 470 Std Error: 0.00  
 Seq primer: -40m13 fwd. ET from AmerSham.

Location/Qualifiers

1. 380  
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 /db\_xref="taxon:9606"  
 /clone\_image="1132411"  
 /clone\_lib="NCI-CGAP\_P12"  
 /sex="Male"  
 /dev\_stage="45 years old"  
 /lab\_host="DH10B"  
 /note="Vector: PAMP10: Site\_1: NOT1; Site\_2: ECoR1; 1st  
 strand cDNA was primed with oligo(dT)17 on 50 ng of  
 DNase-treated, total cellular RNA obtained from  
 5,000-10,000 microdissected preneoplastic cells  
 histologically determined to be prostatic intraepithelial  
 neoplasia 2 (PIN2) cells. Double-stranded cDNA was  
 ligated to EcoRI adaptors, 5 cycles of PCR applied to the  
 cDNA with an adaptor-specific primer, and the resulting  
 PCR product subcloned into PAMP10 by the UDG-cloning  
 method (Life Technologies). Average insert size is 600  
 bp. NOTE: Not directionally cloned. This library was  
 constructed by David Krizman."

BASE COUNT 87 a 92 c 90 g 111 t  
 ORIGIN

alignment\_scores:

Quality: 146.00 Length: 28  
 Ratio: 5.214 Gaps: 0

11:52:28 2000

us-09-065-672-14.rst

page 3

17 nSerGlyIleSerGlycylArgGlyArgGly 27  
|||||  
119 TTCTGGAATTCGGAGCCGAGCAGCAAG 89  
seq\_name: gb\_est34:AI792251

seq\_documentation\_block:  
LOCUS AI792251 369 bp mRNA EST 02-JUL-1999  
DEFINITION np78b10.y5 NCI-CGAP\_P12 Homo sapiens CDNA clone IMAGE:1132411  
similar to contains Alu repetitive element; contains element MER4  
repetitive element ;, mRNA sequence.  
AI792251  
AI792251.1 GI:5339967  
EST.  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
1 (bases 1 to 369)  
NCI/NIDR-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute / National Institute of Dental Research,  
Cancer Genome Anatomy Project (CGAP), Tumor Gene Index  
Unpublished (1997)  
On Jun 5, 1998 this sequence version replaced gi:3187227.  
Other ESTs: np78b10.x5  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov  
Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuqui,  
M.D., Michael Emmert-Buck, M.D., Ph.D.  
CDNA Library Preparation: David B. Kitzman, Ph.D.  
CDNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/dbp/image/image.html

This read is a RESEQUENCE of a previously sequenced human clone  
Original clone citation: see original entry for original citation  
Information  
This 5' resequenced clone has no previous 5' data to verify this  
new read against  
Putative full length read  
The vector to vector length is 370  
Seq primer: -40RP from Gibco.  
Location/Qualifiers

1. 369  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_image="IMAGE:1132411"  
/clone\_lib="NCI-CGAP\_P12"  
/sex="Male"  
/dev\_stage="45 years old"  
/lab\_host="DH10B"  
/note="Vector: PAM10; Site 1: NotI; Site 2: EcoRI; 1st  
strand CDNA was primed with oligo(dT)17 on 50 ng of  
DNase-treated, total cellular RNA obtained from  
5,000-10,000 microdissected preneoplastic cells  
histologically determined to be prostatic intraepithelial  
neoplasia 2 (PIN2) cells. Double-stranded CDNA was  
ligated to EcoRI adaptors, 5 cycles of PCR applied to the  
CDNA with an adaptor-specific primer, and the resulting  
PCR product subcloned into PAM10 by the UDG-cloning  
method (Life Technologies). Average insert size is 600  
bp. NOTE: Not directionally cloned. This library was  
constructed by David Krizman."

BASE COUNT  
ORIGIN

101 a 88 c 93 g 87 t

alignment\_scores:  
Quality: 141.00 Length: 27

Percent Similarity: 100.000 Percent Identity: 100.000  
alignment\_block:  
US-09-065-672-14 x AI792251 ..  
Align seq 1/1 to: AI792251 from: 1 to: 369  
1 ThreleuyshtsleuGlyGluThrArgSerAspIleSerAlaCys 17  
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200 ACTTGAATAATCTACGCGGCGAGACGACGAGCATGCTCAGCCTGTA 249  
17 nSerGlyIleSerGlycylArgGlyArgGly 27  
|||||  
250 TTCTGGAATTCGGAGCCGAGCAGCAAG 280  
seq\_name: gb\_est16:AA578209

seq\_documentation\_block:  
LOCUS AA578209 375 bp mRNA EST 12-SEP-1997  
DEFINITION n156f11.s1 NCI-CGAP\_P14 Homo sapiens CDNA clone IMAGE:1044717  
similar to contains Alu repetitive element; contains element MER4  
repetitive element ;, mRNA sequence.  
AA578209  
AA578209.1 GI:2356393  
EST.  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
1 (bases 1 to 375)  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
Unpublished (1997)  
On Sep 12, 1996 this sequence version replaced gi:1407086.  
Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov  
Tissue Procurement: W. Marston Linehan, M.D., Rodrigo F. Chuqui,  
M.D., Michael R. Emmert-Buck, M.D., Ph.D.  
CDNA Library Preparation: David B. Kitzman, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
www-bio.llnl.gov/dbp/image/image.html

Insert Length: 395 Std Error: 0.00  
Seq primer: -40m13 fwd. ET from Amersham.  
Location/Qualifiers

1. 375  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_image="IMAGE:1044717"  
/clone\_lib="NCI-CGAP\_P14"  
/sex="Male"  
/tissue\_type="prostatic intraepithelial neoplasia - high  
grade"  
/dev\_stage="adult"  
/lab\_host="DH10B"  
/note="Organ: prostate; Vector: PAM10; mRNA made from  
prostate intraepithelial neoplasia (high-grade), CDNA  
made by oligo-dT priming. Non-directionally cloned.  
Size-selected on agarose gel, average insert size 600 bp."

BASE COUNT  
ORIGIN

110 a 87 c 90 g 88 t

alignment\_scores:  
Quality: 141.00 Length: 27  
Ratio: 5.222 Gaps: 0

## alignment\_block:

US-09-065-672-14 x AA578209

Align seg 1/1 to: AA578209 from: 1 to: 375

1 ThreuleylshsleuLeuGlyGluThrArgSerAspGlySerAlaCysAs 17  
|||||  
189 ACTTGAACATCTACTGCGGACGACGAGGATGCTCAGCTGTAA 238

17 nserGlylleSerGlyLysArgGlyLys 27  
|||||  
239 TTCTGCAATTCGAGGAGCCGAGGACGAGAG 269

seq\_name: gp\_est120:AA876897

seq\_documentation\_block:

LOCUS AA876897 378 bp mRNA EST 25-MAR-1998

DEFINITION n747912.s1 NCI\_CGAP\_Pri12 Homo sapiens cDNA clone IMAGE:1274950  
similar to contains Alu repetitive element; contains element LTR3  
repetitive element ; , mRNA sequence.

ACCESSION

AA876897  
AA876897.1 GI:2985974

SOURCE

ORGANISM

human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Homnidae; Homo.REFERENCE  
AUTHORS  
TITLE  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene IndexJOURNAL  
COMMENT  
On Feb 13, 1998 this sequence version replaced gi:2761085.  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
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Email: Robert.Strausberg@nih.gov  
Tissue Procurement: W. Douglas Figg, Ph.D., Paul H. Dury, M.D.,  
Rodrigo F. Chuquai, M.D., Michael R. Emmert-Buck, M.D., Ph.D.,  
CDNA Library Preparation: David B. Krizman, Ph.D.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
www.bio.lnl.gov/bdrrp/image/image.html

## FEATURES

source

Seq primer: -40m13 fwd. ET from Amersham  
High quality sequence stop: 376.  
Location/Qualifiers

1. 378  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1274950"  
/clone\_lib="NCI\_CGAP\_Pri12"  
/sex="Male"  
/issue\_type="metastatic prostate bone lesion"  
/lab\_host="DH10B"  
/note="Vector: PAMP10. mRNA made from metastatic prostate  
lesion of the bone, cDNA made by oligo-dT priming.  
Non-directionally cloned. Size-selected on agarose gel,  
average insert size 600 bp. Library made by D. Krizman,  
NH."

BASE COUNT 106 a 89 c 94 g 89 t

ORIGIN

## alignment\_scores:

Quality: 141.00 Length: 27  
Ratio: 5.222 Gaps: 0  
Similarity: 100.000 Percent Identity: 100.000

US-09-065-672-14 x AA876897

Align seg 1/1 to: AA876897 from: 1 to: 378

1 ThreuleylshsleuLeuGlyGluThrArgSerAspGlySerAlaCysAs 17  
|||||  
204 ACTTGAACATCTACTGCGGACGACGAGGATGCTCAGCTGTAA 253

17 nserGlylleSerGlyLysArgGlyLys 27  
|||||  
254 TTCTGCAATTCGAGGAGCCGAGGACGAGAG 284

seq\_name: gp\_est17:AA631916

seq\_documentation\_block:

LOCUS AA631916 380 bp mRNA EST 30-OCT-1997

DEFINITION np78b10.s1 NCI\_CGAP\_Pri2 Homo sapiens cDNA clone IMAGE:1132411  
similar to contains Alu repetitive element; contains element MER4  
repetitive element ; , mRNA sequence.

ACCESSION

AA631916  
AA631916.1 GI:2554527

VERSION

KEYWORDS

SOURCE

ORGANISM

human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Homnidae; Homo.REFERENCE  
AUTHORS  
TITLE  
NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.  
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene IndexJOURNAL  
COMMENT  
On Sep 12, 1996 this sequence version replaced gi:1406914.  
Unpublished (1997)  
Contact: Robert Strausberg, Ph.D.  
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M.D., Michael Emmert-Buck, M.D., Ph.D.  
CDNA Library Preparation: David B. Krizman, Ph.D.  
CDNA Library Arrayed by: Genome Systems Inc., Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
www.bio.lnl.gov/bdrrp/image/image.html

## FEATURES

source

Insert length: 470 Std Error: 0.00  
Seq primer: -40m13 fwd. ET from Amersham.  
Location/Qualifiers

1. 380  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone="IMAGE:1132411"  
/clone\_lib="NCI\_CGAP\_Pri2"  
/sex="Male"  
/dev\_stage="45 years old"  
/lab\_host="DH10B"  
/note="Vector: PAMP10. Site 1: NotI. Site 2: EcoRI. 1st  
strand cDNA was primed with oligo(dT)17 on 50 ng of  
DNAse-treated, total cellular RNA obtained from  
5,000-10,000 microdissected preneoplastic cells  
histologically determined to be prostatic intraepithelial  
neoplasia 2 (PIN2) cells. Double-stranded cDNA was  
ligated to EcoRI adaptors, 5 cycles of PCR applied to the  
cDNA with an adaptor-specific primer, and the resulting  
PCR product subcloned into PAMP10 by the UDG-cloning  
method (Life Technologies). Average insert size is 600  
bp. NOTE: Not directionally cloned. This library was  
constructed by David Krizman."

BASE COUNT 87 a 92 c 90 g 111 t

ORIGIN

## alignment\_scores:

Quality: 141.00 Length: 27  
Ratio: 5.222 Gaps: 0